

**COMPUTER PROGRAM PRODUCTS AND SYSTEMS FOR RAPIDLY
CHANGING THE SOLUTION ENVIRONMENT AROUND SENSORS**

Abstract

5 The invention provides computer program products for coordinating the movement of cells and other components in a microfluidic substrate with data acquisition. The microfluidic workstation may be used to examine the physiological responses of ion channels, receptors, neurons, and other cells to fluidic streams. The system may also be useful for screening compound libraries to search for novel classes of
10 compounds, screening members of a given class of compounds for effects on specific ion channel proteins and receptors, and to rapidly determine dose-response curves in cell-based assays.

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